

ABSTRACT OF THE DISCLOSURE

## Device for the analysis of electromagnetic signals

5       The invention relates to a device for aiding the  
analysis of signals by using symbols-based digital  
modulation. The device comprises a signal memory for  
storing a complex digital signal, representative in  
amplitude and phase of a captured signal, over a chosen  
10   duration, as well as processing means for searching for  
the properties relating to the carrier frequency of the  
complex signal and to its modulation. According to the  
invention, the processing means comprise projection means  
for calculating the components of the complex signal in a  
15   function basis, parametrized according to an estimated  
tempo of the modulation, as well as calculation means,  
operating on these components so as to determine an  
estimate relating to a property of the complex signal,  
from among its elementary pulse shape, the string of  
20   symbols of the complex signal and its carrier.